



# Internet Data Center (IDC)

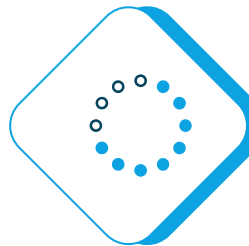
## What is Internet Data Center (IDC)?



An Internet Data Center (IDC) is essentially a **highly secure, high-availability facility** that organizations use to house their servers, applications, and data



It provides a **controlled environment with power backup, cooling, and network connectivity** to keep critical IT systems running continuously



Key features include **redundant power supplies, climate control, fire suppression, and multi-layer security** to ensure uptime and data protection



## IDC for Business

# Why does your business need Internet Data Center (IDC)? (1/2)

1



### Reduced CAPEX & Faster Time-to-Market

- IDCs eliminate upfront CAPEX by shifting to operational expenses
- Companies can launch products faster without waiting to construct infrastructure

2



### Higher Uptime & Disaster Resilience

- IDCs use redundant power, cooling, and network systems to deliver higher uptime
- Geographic redundancy across two sites minimizes downtime for critical apps

## IDC for Business

# Why does your business need Internet Data Center (IDC)? (2/2)

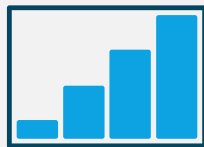
3



### Scalable Computing & Secure Infrastructure

- IDCs let companies scale IT resources on demand without large investments or expanding facilities
- IDCs also provide a highly secure infrastructure environment

4



### Regulatory Compliance & 24×7 Monitoring

- Certified data centers help meet strict data protection and availability requirements
- 24×7 monitoring ensures uptime and compliance by protecting critical apps beyond business hours

# The BSNL Advantage: Scale, Trust and Service

Over  
₹5,000 Cr  
in enterprise  
revenue

Over  
61,000  
Enterprise  
branches under  
the Platinum  
category alone

- 1 Known for Trust and transparent (1:1) billing
- 2 Reliable connectivity partner offering resilient network



## Clients



## Why BSNL IDC?



BSNL is a **100% Government of India-owned** telecom company with a decades-long track record



BSNL's IDCs are built to **Tier-3 standards**, certified by the Uptime Institute with **assured uptime of 99.9%**



BSNL's IDC have **seamless integration** with BSNL's vast telecom network and is **carrier neutral**



Centralized smart monitoring on MeitY-empanelled infrastructure enables secure, compliant, and intelligent cloud operations



BSNL IDC is **ISO 27001 certified** and **SSAE 16/ISAE 3402** compliant with over 25 checkpoints of security



## Features of Tier III Data Centre



**N+1 Redundancy:** All critical systems (power, cooling, network) have at least one independent backup, eliminating single points of failure.



**Concurrent Maintainability:** Any infrastructure component can be serviced or replaced without interrupting operations or causing downtime.



**Multiple Active Paths:** Features redundant, active power and cooling distribution paths, ensuring continuous service even during a path failure.



**99.982% Uptime:** Guarantees exceptionally high availability (max 1.6 hours downtime/year), ensuring near-constant access to your data and applications.

# BSNL's IDC provide a comprehensive suite of services to meet a variety of enterprise IT hosting needs



01

## Managed Co-location Services

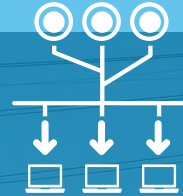
- Secure Rack Space and Cage Space for your own equipment
- Your servers, equipment, etc. benefit from redundant power and cooling, fire protection, and guarded premises



02

## Managed Hosting Services

- BSNL provides physical or virtual servers and secure rack space
- Ideal for businesses outsourcing IT management to focus on applications



03

## Managed IT Services

- A combination of hosting as well as co-location services
- IDC team monitors server hardware, network, and environment for alarms



04

## Cloud Services

- Ready to use platform with scalability and flexibility to change configuration
- Supports primary workloads or hybrid on-premise extension



## Deep Dive | Managed Co- location Services



### Rack Space Options

Clients can choose from flexible rack space options including 1U, 2U, Quarter-rack, Half-rack, or Full-rack, along with lockable cabinets or caged space (e.g., 5-rack cage options available).



### Comprehensive Infrastructure

The services include conditioned space (HVAC), power management, connectivity, and a secure environment to ensure optimal operation and protection of equipment.



### Key Benefits

Customers benefit from highly reliable Tier III uptime certified datacentres with a 99.982% uptime SLA, custom-designed racks, and on-demand scalability.



### Security & Support

The services offer high levels of security (ISO 27001 & SAS 70 Certified Datacentres), video surveillance, and 24x7 remote hands support.

## Deep Dive | Managed Hosting Services



### Dedicated Server Hosting

Offers greater efficiencies and reliability compared to in-house or colocation, providing dedicated web, mail, application, and database servers.



### Customer Control & Standardization

Customers retain control over their data and applications, with hardware standardized by manufacturers like HP, Dell, and SUN, and an Internet-TCP/IP centric approach.



### Benefits - Infrastructure & Connectivity

Features no capital expenditure, world-class datacentres with state-of-the-art infrastructure, and screaming fast connectivity via gigabit backbones.



### Benefits - Flexibility & Support

Includes customizable plans, is backed by high availability SLAs, and provides 24x7 support.

## Deep Dive | Managed Services



### Service Delivery

Management of IT services including catalogue, continuity, performance, capacity, availability, problem, change, configuration, asset, level, incident, and supplier.



### Managed Infrastructure

Covers server, storage, network, backup, disaster recovery, and facilities management.



### Managed Security

Includes management of routers, firewalls, switches, IPS/IDS, antivirus, VPN, and content filtering/DDoS/UTM.



### Managed Applications

Provides database, web server, and application management.



## Deep Dive | Cloud Services



IaaS  
(Infrastructure  
as a Service)

Provides virtualized computing resources like servers, storage, and networking over the internet. You manage the operating system, applications, and data.



PaaS (Platform  
as a Service)

Offers a ready-to-use platform for developing, running, and managing applications without the complexity of building and maintaining the infrastructure. Includes databases and development tools.



SaaS (Software  
as a Service)

Delivers ready-to-use software applications directly over the internet, accessible via a web browser. BSNL manages all underlying infrastructure, platforms, and software.



Progressive  
Service Layers

This illustrates how cloud services offer a spectrum of control, from fundamental infrastructure (IaaS) where you manage more, to a complete software solution (SaaS) where BSNL manages everything for you.